

Appendix A:  
Ichthyoplankton captured during striped bass egg sampling,  
Savannah River Estuary, Spring 2000

Common name (species) by station	Eggs	Larvae	Juveniles
<b>BR 6</b>			
Atlantic croaker ( <i>Micropogonias undulatus</i> )		18	43
Atlantic menhaden ( <i>Brevoortia tyrannus</i> )		3	
bay anchovy ( <i>Anchoa mitchilli</i> )			20
black drum ( <i>Pogonias cromis</i> )		1	
tidewater silverside ( <i>Menidia beryllina</i> )	1		
unknown	2		
<b>BR 10</b>			
Atlantic croaker ( <i>Micropogonias undulatus</i> )		3	4
Atlantic menhaden ( <i>Brevoortia tyrannus</i> )		4	
bay anchovy ( <i>Anchoa mitchilli</i> )		2	
ladyfish ( <i>Elops saurus</i> )		2	
striped bass ( <i>Morone saxatilis</i> )	44		
spot ( <i>Leiostomus xanthurus</i> )			1
tidewater silverside ( <i>Menidia beryllina</i> )	1		
<b>SR 19</b>			
Atlantic croaker ( <i>Micropogonias undulatus</i> )		4	1
bay anchovy ( <i>Anchoa mitchilli</i> )		1	1
goby ( <i>Gobiidae spp.</i> )		2	
silver perch ( <i>Bairdiella chrysoura</i> )		1	
striped bass ( <i>Morone saxatilis</i> )	2	1	
unknown	2		
<b>SR 26</b>			
Atlantic croaker ( <i>Micropogonias undulatus</i> )			1
American Shad ( <i>Alosa sapidissima</i> )	25		
striped bass ( <i>Morone saxatilis</i> )	580	1	
unknown	73		

Appendix B:  
Water quality taken during striped bass egg collection,  
Savannah River Estuary, Spring 2000, by station  
(blank entries indicate missing values)

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
BR10	03/07/00	16.9	7.0	0.66	7.60	1.1	1.8
BR10	03/09/00	17.5	7.1	0.64	7.14	0.6	11.0
BR10	03/11/00	18.8	6.9	0.52	8.13	0.3	6.3
BR10	03/13/00	17.2	6.9	0.36	8.34	0.3	0.5
BR10	03/15/00	16.2	7.0	0.63	6.50	0.3	0.5
BR10	03/17/00	17.6	7.0	0.65	7.41	0.3	0.6
BR10	03/19/00	16.0	7.0	0.25	7.88	1.5	2.2
BR10	03/21/00	17.4	6.9	0.45	7.95	0.4	0.7
BR10	03/23/00	17.4	7.0	0.60	8.45	0.4	0.7
BR10	03/25/00	17.5	7.0	0.40	7.01	0.2	0.3
BR10	03/27/00	18.1	6.9	0.56	6.22	0.1	0.2
BR10	03/29/00	17.7	6.9	0.33	10.70	0.1	0.1
BR10	03/31/00	18.5	6.9	0.37	6.54	0.4	0.6
BR10	04/02/00	18.9	7.0	0.67	7.33	1.5	2.3
BR10	04/04/00	19.9	7.0	0.58	5.79	1.1	0.2
BR10	04/06/00	18.1			7.21	0.5	1.1
BR10	04/08/00	19.2	7.0		7.45	0.6	1.2
BR10	04/10/00	18.0	7.1		7.28	0.3	5.2
BR10	04/12/00	18.0	6.9	0.35	13.99	0.2	0.4
BR10	04/14/00	17.8	7.2	0.55	8.25	1.0	1.7
BR10	04/16/00	17.7	7.0	0.55	8.04	0.4	0.8
BR10	04/18/00	19.7	7.0	0.60	6.92	0.4	0.7
BR10	04/20/00	20.7	7.1	0.50	10.03	0.9	1.6
BR10	04/22/00	20.5	7.0	0.55	9.24	0.6	1.0
BR10	04/24/00						
BR10	04/26/00	19.0	7.0	0.29	7.55	0.2	0.4
BR10	04/28/00	21.2	7.1		9.75	0.7	
BR10	04/30/00	20.8	7.0	0.62	8.73	1.7	2.9
BR10	05/02/00	21.5	7.0	0.57	8.14	2.3	4.1
BR10	05/04/00	23.0	7.2	0.23	7.82	2.6	4.6
BR10	05/06/00	23.4	7.1	0.37	7.14	1.6	2.8
BR10	05/08/00	24.2	7.1	0.51	8.26	0.6	1.2
BR10	05/10/00	25.4	7.1	0.54	7.92	1.1	2.1
BR10	05/12/00	25.4	7.0	0.57	6.64	1.3	2.6
Mean:		19.4	7.0	0.50	7.98	0.8	1.9
Standard deviation:		2.5	0.1	0.13	1.52	0.6	2.3

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
BR15	03/07/00	16.4	7.0	0.60	7.50	0.3	0.1
BR15	03/09/00	17.4	7.1	0.77	7.30	0.1	0.2
BR15	03/11/00	18.4	7.0	0.41	7.88	0.1	0.1
BR15	03/13/00	17.4	6.9	0.62	8.16	0.1	0.1
BR15	03/15/00	15.5	7.0	0.46	6.40	0.2	0.4
BR15	03/17/00	17.2	6.9	0.56	6.70	0.2	0.3
BR15	03/19/00	15.8	6.9	0.32	7.67	0.2	0.4
BR15	03/21/00	17.6	6.9	0.51	7.20	0.1	0.2
BR15	03/23/00	16.7	6.9	0.49	8.10	0.1	0.1
BR15	03/25/00	17.0	6.9	0.44	7.28	0.0	0.1
BR15	03/27/00						
BR15	03/29/00	18.0	7.0	0.32	8.65	0.1	0.1
BR15	03/31/00	18.3	6.9	0.31	6.80	0.2	0.4
BR15	04/02/00	18.6	6.9	0.14	7.01	0.2	0.3
BR15	04/04/00	19.8	6.9	0.48	5.45	0.2	0.5
BR15	04/06/00	17.2			7.00	0.3	0.5
BR15	04/08/00	19.2	7.0		7.16	0.2	0.4
BR15	04/10/00		7.0				
BR15	04/12/00	17.8	6.9	0.28	12.91	0.3	0.5
BR15	04/14/00	17.1	7.1	0.57	7.93	0.1	0.2
BR15	04/16/00	17.9	7.0	0.63	7.76	0.3	0.5
BR15	04/18/00	19.4	6.9	0.50	6.72	0.2	0.4
BR15	04/20/00	20.1	7.0	0.42	8.27	0.3	0.6
BR15	04/22/00	20.2	6.9	0.21	7.89	0.1	0.2
BR15	04/24/00						
BR15	04/26/00	19.0	7.0	0.24	8.42	0.2	0.3
BR15	04/28/00	21.0	7.1		9.43	0.6	0.5
BR15	04/30/00	20.3	7.1	0.50	8.04	0.3	0.5
BR15	05/02/00	20.9	6.9	0.55	7.14	0.6	1.2
BR15	05/04/00	22.6	7.0	0.42	7.52	0.6	1.1
BR15	05/06/00	22.3	7.0	0.44	6.42	0.4	0.8
BR15	05/08/00	24.2	7.1	0.43	7.63	0.3	0.5
BR15	05/10/00	25.5	7.0	0.26	7.60	0.3	0.7
BR15	05/12/00	25.7	6.9	0.53	6.20	0.3	0.6
Mean:		19.2	7.0	0.44	7.62	0.2	0.4
Standard deviation:		2.6	0.1	0.14	1.26	0.2	0.3

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
BR2	03/08/00	16.7	7.2	0.22	6.30	10.1	14.4
BR2	03/10/00	17.8	7.2	0.18	6.97	6.6	11.6
BR2	03/12/00	17.9	7.2	0.20	6.86	6.7	10.1
BR2	03/14/00	18.0	7.2	0.30		8.7	12.7
BR2	03/16/00	17.4	7.3	0.61	7.09	9.9	14.3
BR2	03/18/00	17.3	7.3	0.34	7.20	11.3	16.1
BR2	03/20/00	17.2	7.3	0.42	7.94	8.5	12.3
BR2	03/22/00	18.5	7.3	0.32	8.60	6.1	9.3
BR2	03/24/00	18.7	7.2	0.32	6.50	5.5	8.5
BR2	03/26/00	18.6	7.2	0.47	6.89	4.2	6.6
BR2	03/28/00	17.2	7.5	0.24	6.94	6.2	9.3
BR2	03/30/00	18.0	7.2	0.52	6.16	15.4	21.3
BR2	04/01/00	17.8	7.4	0.26	7.42	17.3	24.2
BR2	04/03/00	19.2	7.2	0.30	7.36	12.2	19.1
BR2	04/05/00	19.1	7.4	0.72	6.01	11.8	19.8
BR2	04/07/00	19.4	7.2		5.20	8.0	12.3
BR2	04/09/00	18.8	7.3		7.10	8.1	12.3
BR2	04/11/00	17.8	7.2	0.40	9.84	7.7	11.4
BR2	04/13/00	18.7	7.3	0.20	7.50	9.4	14.1
BR2	04/15/00	18.0	7.3	0.13	7.18	11.6	16.8
BR2	04/17/00	19.2	7.2	0.36	7.15	8.5	13.0
BR2	04/19/00	19.7	7.3	0.44	7.26	10.8	15.8
BR2	04/21/00	21.2	7.3	0.22	9.28	8.8	14.0
BR2	04/23/00	20.7	7.2	0.11	8.67	10.3	16.1
BR2	04/25/00	20.4	7.3	0.15	9.55	8.6	13.4
BR2	04/27/00	19.7	7.3	0.43	8.40	9.7	14.8
BR2	04/29/00	20.0	7.3	0.65	8.00	15.1	22.2
BR2	05/01/00	20.8	7.4	0.32	6.70	17.2	25.6
BR2	05/03/00	22.0	7.3	0.36	6.40	14.5	22.6
BR2	05/05/00	23.5	7.2	0.34	6.62	12.7	20.6
BR2	05/07/00	24.0	7.4	0.22	5.88	12.3	20.1
BR2	05/09/00	25.6	7.4	0.36	6.53	9.0	15.4
BR2	05/11/00	24.1	7.3	0.71	6.75	10.7	17.9
Mean:		19.5	7.3	0.35	7.26	10.1	15.4
Standard deviation:		2.2	0.1	0.16	1.07	3.2	4.7

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
BR6	03/07/00	17.9	7.2	4.30	7.27	12.6	7.8
BR6	03/09/00	18.6	7.3	0.16	7.00	6.7	10.8
BR6	03/11/00	19.2	7.2	0.38	7.38	6.7	10.5
BR6	03/13/00	18.0	7.2	0.40	8.41	5.3	8.0
BR6	03/15/00	16.2	7.2	0.88	6.80	3.2	4.6
BR6	03/17/00	17.8	7.2	0.75	7.30	5.5	8.1
BR6	03/19/00	16.8	7.2	0.24	7.35	8.0	11.6
BR6	03/21/00	18.1	7.2	0.25	7.65	5.3	8.2
BR6	03/23/00	17.9	7.0	0.50	8.00	5.6	8.5
BR6	03/25/00	18.7	7.0	0.31	6.94	1.7	2.8
BR6	03/27/00	18.6	6.9	0.52	7.46	0.6	1.1
BR6	03/29/00	17.5	7.0	0.52	8.80	0.9	1.5
BR6	03/31/00	18.4	7.1	0.73	6.53	4.6	7.0
BR6	04/02/00	18.8	7.1	0.52	7.63	6.4	11.4
BR6	04/04/00	19.7	7.3	0.23	5.81	9.9	15.1
BR6	04/06/00	18.3			7.50	8.4	12.6
BR6	04/08/00	19.5	7.2		7.22	8.2	12.4
BR6	04/10/00	18.7	7.2		6.74	8.2	12.5
BR6	04/12/00	18.3	7.0	0.37	9.49	1.3	2.3
BR6	04/14/00	17.6	7.2	0.72	8.30	4.9	7.4
BR6	04/16/00	18.2	7.1	0.80	8.25	6.2	7.4
BR6	04/18/00	19.7	7.2	0.44	8.18	5.0	7.9
BR6	04/20/00	20.4	7.2	0.26	8.51	9.1	14.1
BR6	04/22/00	20.5	7.3	0.48	10.35	5.2	8.5
BR6	04/24/00	20.6	7.3	0.08	9.10	7.0	12.1
BR6	04/26/00	19.3	7.2	0.38	8.74	2.4	4.1
BR6	04/28/00	21.2	7.3		10.80	4.5	
BR6	04/30/00	20.4	7.3	0.69	9.07	7.2	11.4
BR6	05/02/00	21.5	7.2	0.61	8.10	8.5	13.5
BR6	05/04/00	22.4	7.3	0.18	7.30	12.1	19.3
BR6	05/06/00	23.5	7.2	0.00	6.09	10.7	17.5
BR6	05/08/00	25.3	7.3	0.69	8.29	4.5	8.1
BR6	05/10/00	25.4	7.2	0.01	7.11	8.0	14.0
BR6	05/12/00	25.0	7.2	0.73	6.33	7.7	13.0
Mean:		19.6	7.2	0.57	7.82	6.2	9.5
Standard deviation:		2.3	0.1	0.74	1.13	3.0	4.4

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
MR2	03/08/00	17.4	6.9	0.74	7.46	1.0	1.8
MR2	03/10/00	18.1	7.0	0.61	8.20	0.5	0.8
MR2	03/12/00	17.8	7.0	0.58	6.99	0.4	0.7
MR2	03/14/00	16.1	7.1	0.61	8.15	0.5	0.9
MR2	03/16/00	17.4	7.0	0.50	7.56	0.9	1.6
MR2	03/18/00	16.3	7.1	0.58	7.80	1.1	1.7
MR2	03/20/00	17.7	7.0	0.89	8.37	0.8	1.4
MR2	03/22/00	18.7	7.0	0.63	9.12	0.2	0.4
MR2	03/24/00	18.0	7.0	0.73	7.26	0.3	0.3
MR2	03/26/00	18.2	6.9	0.46	7.17	0.1	0.2
MR2	03/28/00	18.7	7.0	0.49	8.00	0.5	0.8
MR2	03/30/00						
MR2	04/01/00	18.6	7.0	0.46	6.67	2.2	0.4
MR2	04/03/00	19.9	7.0	0.47	7.78	1.4	2.4
MR2	04/05/00	19.1	7.0	0.59	6.64	0.6	0.1
MR2	04/07/00	19.4	7.1		7.10	1.4	2.3
MR2	04/09/00	18.5	7.0		6.24	0.5	0.9
MR2	04/11/00	19.0	7.0	0.45	8.06	1.9	3.1
MR2	04/13/00	18.6	7.0	0.32	7.94	0.9	1.6
MR2	04/15/00	17.4	7.0	0.64	8.25	1.2	2.1
MR2	04/17/00	19.0	7.0	0.61	8.32	1.0	1.7
MR2	04/19/00	20.2	7.1	0.67	7.80	1.2	2.2
MR2	04/21/00	21.0	7.1	0.42	9.40	1.7	2.4
MR2	04/23/00	20.9	7.0	0.45	9.15	0.9	1.6
MR2	04/25/00	20.5	7.2	0.39	9.52	0.9	1.7
MR2	04/27/00	21.4	7.1	0.28	8.95	3.9	6.6
MR2	04/29/00	20.8	7.3	0.25	8.51	2.9	4.8
MR2	05/01/00	21.2	7.1	0.36	7.33	3.9	7.0
MR2	05/03/00	22.4	7.2	0.67	7.66	1.8	3.3
MR2	05/05/00	23.3	7.1	0.51	7.25	2.3	4.2
MR2	05/07/00	24.4	7.3	0.60	6.95	3.2	5.8
MR2	05/09/00	25.4	7.2	0.53	7.52	1.1	2.1
MR2	05/11/00	24.9	7.1	0.46	6.43	0.8	1.6
Mean:		19.7	7.1	0.53	7.80	1.3	2.1
Standard deviation:		2.4	0.1	0.14	0.85	1.0	1.8

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
SR12	03/08/00	17.7	7.3	0.84	6.80	11.5	19.3
SR12	03/10/00	18.6	7.2	0.68	7.80	8.2	12.8
SR12	03/12/00	18.0	7.3	1.02	6.50	6.9	10.4
SR12	03/14/00	18.0	7.3	0.89		9.0	13.3
SR12	03/16/00	17.6	7.2	1.32	7.04	7.2	10.7
SR12	03/18/00	17.3	7.4	0.89	7.40	10.2	14.8
SR12	03/20/00	17.9	7.4	1.14	8.22	7.8	11.5
SR12	03/22/00	18.6	7.2	1.11	8.51	6.0	9.2
SR12	03/24/00	18.4	7.2	1.03	6.61	4.5	6.9
SR12	03/26/00	18.8	7.0	0.43	5.49	3.1	4.9
SR12	03/28/00	17.6	7.2	0.50	7.52	5.8	8.7
SR12	03/30/00						
SR12	04/01/00	18.3	7.4	0.65	6.76	10.7	15.5
SR12	04/03/00	19.2	7.3	0.81	7.42	12.9	19.3
SR12	04/05/00	19.2	7.3	0.96	6.68	12.1	18.0
SR12	04/07/00	19.1	7.2		6.60	11.5	17.2
SR12	04/09/00	18.8	7.2		6.28	8.3	12.6
SR12	04/11/00	18.4	7.3	0.84	11.80	6.8	10.3
SR12	04/13/00	18.6	7.3	0.79	7.90	7.7	11.5
SR12	04/15/00	18.1	7.4	1.27	7.83	10.4	15.2
SR12	04/17/00	19.2	7.3	0.87	7.96	11.0	16.3
SR12	04/19/00	19.6	7.3	0.34	7.15	13.0	19.6
SR12	04/21/00	20.4	7.3	0.23	8.25	13.5	21.1
SR12	04/23/00	21.0	7.3	0.49	8.56	10.3	16.1
SR12	04/25/00	20.8	7.3	0.41	9.02	9.4	14.8
SR12	04/27/00	20.0	7.2	0.41	7.52	9.8	14.9
SR12	04/29/00	19.9	7.3	1.15	7.40	10.1	15.0
SR12	05/01/00	20.9	7.5	0.56	6.22	16.3	24.3
SR12	05/03/00	21.8	7.3	0.58	7.02	15.4	23.5
SR12	05/05/00	22.7	7.3	0.64	6.35	14.0	22.3
SR12	05/07/00	23.8	7.4	0.73	6.11	12.5	20.2
SR12	05/09/00	25.2	7.3	0.50	6.47	9.6	16.4
SR12	05/11/00	24.4	7.3	0.97	6.06	8.6	14.5
Mean:		19.6	7.3	0.77	7.33	9.8	15.0
Standard deviation:		2.0	0.1	0.29	1.19	3.1	4.7

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
SR19	03/08/00	17.3	7.2	0.59	7.20	2.8	4.6
SR19	03/10/00	17.6	7.0	0.61	7.60	2.3	3.7
SR19	03/12/00	17.8	7.1	0.44	6.28	2.3	3.9
SR19	03/14/00	16.8	7.1	0.61		2.1	3.4
SR19	03/16/00	17.4	7.1	0.50	7.15	2.4	3.9
SR19	03/18/00	17.1	7.1	0.48	7.39	2.8	4.4
SR19	03/20/00	17.1	7.2	0.46	7.97	2.3	5.0
SR19	03/22/00	18.5	7.0	0.48	8.78	1.3	2.2
SR19	03/24/00	17.9	7.0	0.70	6.91	1.1	1.9
SR19	03/26/00	18.5	6.9	0.65	7.44	0.5	1.1
SR19	03/28/00	18.8	7.1	0.23	7.40	3.7	5.9
SR19	03/30/00						
SR19	04/01/00	18.6	7.2	0.48	6.50	7.5	11.2
SR19	04/03/00	19.4	7.1	0.41	7.50	5.2	8.3
SR19	04/05/00	19.3	7.1	0.32	6.92	3.4	5.5
SR19	04/07/00	19.9	7.1		7.35	2.6	4.8
SR19	04/09/00	19.7	7.3		6.97	2.3	4.0
SR19	04/11/00	19.4	7.2	0.07	8.04	2.5	4.1
SR19	04/13/00	18.6	7.1	0.61	8.11	2.8	4.6
SR19	04/15/00	18.0	7.1	0.57	7.76	5.1	8.0
SR19	04/17/00	18.9	7.2	0.48	7.38	4.9	7.5
SR19	04/19/00	19.5	7.2	0.52	7.16	4.3	6.8
SR19	04/21/00	20.8	7.1	0.27	8.99	3.4	5.7
SR19	04/23/00	21.3	7.2	0.55	8.60	3.4	5.7
SR19	04/25/00	21.2	7.2	0.23	9.11	2.6	4.4
SR19	04/27/00	20.0	7.2	0.47	7.30	7.1	11.3
SR19	04/29/00	20.4	7.3	0.38	7.41	10.4	15.9
SR19	05/01/00	21.1	7.4	0.51	6.68	8.7	13.6
SR19	05/03/00	21.9	7.1	0.48	6.70	6.4	10.6
SR19	05/05/00	23.3	7.2	0.62	6.73	4.5	7.8
SR19	05/07/00	24.5	7.2	0.64	7.43	1.4	2.7
SR19	05/09/00	25.0	7.3	0.44	6.91	3.4	6.3
SR19	05/11/00	24.8	7.1	0.60	6.15	2.8	5.5
Mean:		19.7	7.1	0.48	7.41	3.7	6.1
Standard deviation:		2.3	0.1	0.14	0.74	2.3	3.4

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
SR24	03/08/00	17.1	7.0	0.96	8.02	0.1	0.1
SR24	03/10/00	17.5	6.9	0.94	8.70	0.1	1.1
SR24	03/12/00	17.8	7.0	0.60	6.82	0.1	0.1
SR24	03/14/00	16.5	7.0	0.62		0.1	0.1
SR24	03/16/00	16.8	7.1	0.57	8.25	0.1	0.1
SR24	03/18/00	16.4	7.0	1.25	8.59	0.1	0.1
SR24	03/20/00	16.6	7.0	1.20	9.07	0.1	0.1
SR24	03/22/00	17.7	7.0	0.93	9.52	0.0	0.1
SR24	03/24/00	16.8	7.1	1.04	7.88	0.0	0.0
SR24	03/26/00	17.7	6.9	0.71	7.18	0.0	0.1
SR24	03/28/00	18.5	7.0	0.80	7.80	0.0	0.1
SR24	03/30/00						
SR24	04/01/00	18.6	7.1	0.68	7.06	0.1	0.1
SR24	04/03/00	19.4	7.0	0.75	8.39	0.1	0.1
SR24	04/05/00	19.1	7.0	0.68	7.06	0.1	0.1
SR24	04/07/00	19.1	7.1		7.68	0.1	0.2
SR24	04/09/00	18.1	7.1		7.30	0.1	0.1
SR24	04/11/00	18.2	7.0	0.70	7.68	0.1	0.2
SR24	04/13/00	18.6	7.0	0.60	8.38	0.1	0.1
SR24	04/15/00	17.4	7.0	0.91	8.78	0.1	0.1
SR24	04/17/00	18.8	7.0	0.71	8.62	0.1	0.1
SR24	04/19/00	20.0	7.0	0.88	8.08	0.1	0.1
SR24	04/21/00	21.0	7.1	0.87	9.70	0.1	0.1
SR24	04/23/00	20.8	7.1	0.66	9.22	0.1	0.1
SR24	04/25/00	20.3	7.1	0.72	9.03	0.1	0.1
SR24	04/27/00	20.5	7.2	0.71	8.98	0.7	1.6
SR24	04/29/00	20.5	7.1	0.47	8.03	0.1	0.2
SR24	05/01/00	21.0	7.1	0.73	7.74	0.1	0.2
SR24	05/03/00	22.2	7.0	0.75	7.98	0.1	0.2
SR24	05/05/00	23.0	7.1	0.85	7.53	0.1	0.2
SR24	05/07/00	24.1	7.2	0.57	7.60	0.1	0.2
SR24	05/09/00	25.0	7.1	0.66	7.41	0.1	0.2
SR24	05/11/00	25.3	7.0	0.42	6.84	0.1	0.2
Mean:		19.4	7.0	0.76	8.09	0.1	0.2
Standard deviation:		2.4	0.1	0.19	0.79	0.1	0.3

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
SR26	03/07/00	16.5	7.0	0.56	8.40	0.1	0.1
SR26	03/09/00	17.1	7.1	0.43	8.00	0.1	0.1
SR26	03/11/00	18.0	7.1	0.52	8.60	0.1	0.1
SR26	03/13/00	17.3	7.0	0.40	8.36	0.1	0.1
SR26	03/15/00	16.2	7.0	0.72	7.10	0.1	0.1
SR26	03/17/00	16.6	7.0	0.88	8.38	0.1	0.1
SR26	03/19/00	15.8	6.9	0.84	8.71	0.1	0.1
SR26	03/21/00	17.3	7.0	0.67	8.88	0.1	0.1
SR26	03/23/00	16.9	7.0	0.96	9.56	0.0	0.0
SR26	03/25/00	16.6	7.0	0.67	7.92	0.0	0.1
SR26	03/27/00						
SR26	03/28/00	18.7	6.9	0.61	7.70	0.1	0.1
SR26	03/29/00	18.4	7.0	0.53	8.71	0.1	0.1
SR26	03/31/00	18.4	7.0	0.26	6.10	0.1	0.1
SR26	04/02/00	18.8	7.0	0.74	8.18	0.1	0.1
SR26	04/04/00	19.3	7.0	0.78	6.46	0.1	0.1
SR26	04/06/00	18.8			7.77	0.1	1.2
SR26	04/08/00						
SR26	04/10/00		7.1				
SR26	04/12/00	18.6	7.0	0.26	13.24	0.1	0.1
SR26	04/14/00	17.9	7.2	0.73	8.32	0.1	0.1
SR26	04/16/00	17.6	7.0	0.44	8.93	0.1	0.1
SR26	04/18/00	19.5	7.0	0.60	7.32	0.1	0.1
SR26	04/20/00	20.6	7.1	0.67	9.87	0.1	0.1
SR26	04/22/00	20.9	7.1	0.59	8.73	0.1	0.1
SR26	04/24/00						
SR26	04/26/00	18.6	7.0	0.57	8.64	0.1	0.1
SR26	04/28/00	20.9	7.1		8.40	0.1	
SR26	04/30/00	20.7	7.1	0.60	8.99	0.1	1.3
SR26	05/02/00	21.6	7.0	0.67	7.95	0.1	0.2
SR26	05/04/00	22.7	7.1	0.71	7.93	0.1	2.5
SR26	05/06/00	23.6	7.1	0.79	7.65	0.1	0.2
SR26	05/08/00	24.7	7.1	0.79	7.67	0.1	0.2
SR26	05/10/00	25.8	7.0	0.59	7.57	0.1	0.2
SR26	05/12/00	26.0	7.1	0.63	7.40	0.1	0.2
Mean:		19.5	7.0	0.63	8.30	0.1	0.3
Standard deviation:		2.8	0.1	0.17	1.24	0.0	0.5

Sampling Station	Date	Temperature (°C)	pH	Velocity (m/s)	D.O. (ppm)	Salinity (ppt)	Conductivity (mS)
SR31	03/07/00	16.0	7.1	0.88	8.70	0.1	0.1
SR31	03/09/00	16.9	7.1	0.79	8.15	0.1	0.1
SR31	03/11/00	18.1	7.1	0.75	8.61	0.1	0.1
SR31	03/13/00	16.7	7.0	0.18	7.53	0.1	0.1
SR31	03/15/00	16.3	7.1	0.74	7.70	0.1	0.1
SR31	03/17/00	16.4	7.0	0.92	8.60	0.1	0.1
SR31	03/19/00	15.4	7.0	0.68	8.86	0.1	0.1
SR31	03/21/00	16.7	7.0	0.88	9.30	0.1	0.0
SR31	03/23/00	17.0	7.0	0.85	9.50	0.1	0.9
SR31	03/25/00	16.7	6.9	0.86	8.06	0.0	0.1
SR31	03/27/00	18.3	6.9	0.46	6.53	0.0	0.1
SR31	03/31/00	18.3	6.9	0.84	7.55	0.1	0.1
SR31	04/02/00	19.3	6.9	0.94	8.28	0.1	0.1
SR31	04/04/00	19.2	7.0	0.83	6.62	0.1	0.1
SR31	04/06/00	18.4			7.62	0.1	0.1
SR31	04/08/00						
SR31	04/10/00		7.1				
SR31	04/12/00	18.1	7.1	0.48	15.26	0.1	0.1
SR31	04/14/00	17.8	7.0	0.74	8.87	0.1	0.1
SR31	04/16/00	17.4	7.1	0.97	9.35	0.1	0.1
SR31	04/18/00	19.7	7.1	0.32	7.58	0.1	0.1
SR31	04/20/00	20.8	7.1	0.72	10.32	0.1	0.1
SR31	04/22/00	21.0	7.1	0.85	9.23	0.1	0.1
SR31	04/24/00						
SR31	04/26/00	19.4	7.1	0.98	8.86	0.1	0.1
SR31	04/28/00	20.9	7.1		8.80	0.1	
SR31	04/30/00	20.3	7.1	0.50	9.12	0.1	
SR31	05/02/00	21.5	7.2	0.92	8.50	0.1	0.1
SR31	05/04/00	23.0	7.2	0.58	8.01	0.1	0.1
SR31	05/06/00	23.7	7.1	0.74	8.01	0.1	0.1
SR31	05/08/00	25.2	7.2	0.85	7.89	0.1	0.2
SR31	05/10/00	25.8	7.1	0.45	7.05	0.1	0.2
SR31	05/12/00	25.8	7.1	0.73	7.38	0.1	0.2
Mean:		19.3	7.1	0.73	8.53	0.1	0.1
Standard deviation:		3.0	0.1	0.20	1.54	0.0	0.2

Appendix C:  
Water quality profile data, Savannah River Estuary,  
Spring 2000, by tide and station

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp <sup>o</sup> C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
<b>BR2</b>									
neap	low slack	3.27.00	9.21.38	17.4	35.19	22.2	.	8.3	7.47
		3.27.00	9.22.36	17.4	33.75	21.2	.	7.5	7.56
		3.27.00	9.23.13	17.4	33.16	20.8	.	6.6	7.59
		3.27.00	9.23.50	17.5	30.72	19.1	.	5.5	7.63
		3.27.00	9.24.36	17.6	22.62	13.7	.	4.5	7.72
		3.27.00	9.25.13	17.9	16.46	9.7	.	3.6	7.80
		3.27.00	9.25.49	18.0	10.53	6.0	.	2.6	7.85
		3.27.00	9.26.28	18.0	9.22	5.2	.	1.6	7.84
		3.27.00	9.27.05	18.1	7.26	4.0	.	0.6	7.87
neap	high slack	3.27.00	14.55.49	17.4	36.62	23.2	.	8.7	7.51
		3.27.00	14.56.20	17.4	36.13	22.9	.	7.7	7.57
		3.27.00	14.56.58	17.4	34.42	21.7	.	6.5	7.61
		3.27.00	14.57.29	17.4	31.76	19.8	.	5.6	7.65
		3.27.00	14.57.56	17.5	28.18	17.4	.	4.6	7.70
		3.27.00	14.58.28	17.5	24.19	14.7	.	3.6	7.73
		3.27.00	14.59.00	17.7	18.46	11.0	.	2.6	7.81
		3.27.00	14.59.39	17.8	14.91	8.7	.	1.7	7.81
		3.27.00	15.00.12	18.4	9.71	5.5	.	0.6	7.87
spring	high slack	3.21.00	10.16.58	17.3	25.49	15.6	.	13.0	7.05
		3.21.00	10.17.37	17.3	25.66	15.7	.	12.1	7.19
		3.21.00	10.18.01	17.3	25.80	15.8	.	11.2	7.25
		3.21.00	10.18.21	17.3	24.68	15.1	.	10.2	7.31
		3.21.00	10.18.42	17.3	23.86	14.5	.	9.2	7.35
		3.21.00	10.19.02	17.2	22.82	13.8	.	8.2	7.39
		3.21.00	10.19.20	17.2	21.95	13.2	.	7.2	7.42
		3.21.00	10.19.37	17.2	21.40	12.9	.	6.2	7.43
		3.21.00	10.19.54	17.2	20.70	12.4	.	5.1	7.46
		3.21.00	10.20.14	17.2	19.33	11.5	.	4.1	7.49
		3.21.00	10.20.31	17.2	17.48	10.4	.	3.2	7.53
		3.21.00	10.20.50	17.2	15.78	9.3	.	2.1	7.55
		3.21.00	10.21.10	17.3	13.54	7.9	.	1.2	7.59
		3.21.00	10.21.38	17.7	12.26	7.1	.	0.2	7.58
		3.21.00	10.34.42	17.3	28.98	17.9	.	15.8	7.27
spring	low slack	3.21.00	17.09.23	17.5	21.36	12.9	.	10.8	7.01
		3.21.00	17.10.24	17.9	17.45	10.3	.	10.0	7.16
		3.21.00	17.10.59	18.3	14.36	8.4	.	9.1	7.23
		3.21.00	17.11.20	18.4	13.73	8.0	.	8.7	7.24
		3.21.00	17.12.16	18.7	10.87	6.2	.	7.1	7.24
		3.21.00	17.12.53	18.7	10.36	5.9	.	6.0	7.24
		3.21.00	17.13.48	18.8	9.64	5.4	.	5.0	7.25
		3.21.00	17.14.46	18.7	8.74	4.9	.	4.0	7.25
		3.21.00	17.15.28	18.7	7.83	4.4	.	3.0	7.27
		3.21.00	17.15.59	18.7	7.61	4.2	.	2.1	7.27

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		3.21.00	17.16.29	18.7	7.13	3.9	.	1.1	7.29
		3.21.00	17.17.16	18.7	5.95	3.2	.	-0.1	7.33
spring	high slack	4.19.00	15.20.22	19.5	27.91	17.2	5.21	10.8	7.09
		4.19.00	15.21.04	19.5	26.75	16.4	6.13	10.0	7.24
		4.19.00	15.21.34	19.5	25.20	15.4	6.23	9.0	7.31
		4.19.00	15.22.15	19.7	21.32	12.8	6.47	7.8	7.39
		4.19.00	15.23.17	20.5	16.47	9.7	6.89	6.6	7.45
		4.19.00	15.23.44	20.7	16.13	9.5	6.98	5.8	7.44
		4.19.00	15.24.29	20.9	15.00	8.8	7.12	4.8	7.43
		4.19.00	15.25.08	20.9	12.98	7.5	7.23	3.8	7.46
		4.19.00	15.25.39	20.8	12.56	7.2	7.26	2.9	7.45
		4.19.00	15.26.32	20.5	11.78	6.7	7.27	1.8	7.44
		4.19.00	15.27.12	20.6	9.81	5.5	7.36	0.8	7.45
		4.19.00	15.27.45	20.7	9.58	5.4	7.43	0.1	7.44
spring	low slack	4.20.00	9.41.03	19.8	25.24	15.4	6.26	11.5	7.74
		4.20.00	9.41.16	19.8	25.10	15.3	6.25	11.5	7.74
		4.20.00	9.42.19	19.8	25.42	15.5	6.21	11.0	7.75
		4.20.00	9.42.54	19.8	25.14	15.4	6.21	10.0	7.76
		4.20.00	9.43.35	19.8	24.69	15.1	6.23	9.0	7.77
		4.20.00	9.44.32	19.8	23.69	14.4	6.25	8.0	7.78
		4.20.00	9.45.43	19.8	22.80	13.8	6.29	6.8	7.79
		4.20.00	9.46.32	19.7	22.31	13.5	6.32	5.8	7.79
		4.20.00	9.47.36	19.7	21.18	12.7	6.36	4.8	7.80
		4.20.00	9.48.42	19.7	20.14	12.1	6.37	3.8	7.80
		4.20.00	9.49.56	19.7	19.40	11.6	6.38	2.9	7.79
		4.20.00	9.51.01	19.8	17.59	10.4	6.45	1.7	7.79
		4.20.00	9.51.55	20.0	15.62	9.2	6.58	0.7	7.81
		4.20.00	9.52.48	20.7	14.17	8.2	6.76	0.1	7.79
neap	low slack	4.27.00	9.44.05	19.9	38.06	24.2	5.91	10.8	7.77
		4.27.00	9.44.52	19.9	37.47	23.8	5.69	9.0	7.87
		4.27.00	9.45.31	19.9	34.77	21.9	5.75	7.0	7.93
		4.27.00	9.46.11	19.9	23.34	14.2	6.26	5.0	8.05
		4.27.00	9.46.56	19.8	18.11	10.8	6.76	3.0	8.08
		4.27.00	9.47.33	19.9	14.45	8.4	7.15	1.0	8.10
		4.27.00	9.47.52	20.0	13.84	8.0	7.28	0.3	8.08
neap	high slack	4.27.00	14.40.43	19.9	36.82	23.3	6.23	10.5	8.02
		4.27.00	14.41.25	19.9	36.43	23.1	5.91	8.9	8.04
		4.27.00	14.42.00	19.9	34.49	21.7	5.95	7.1	8.07
		4.27.00	14.42.44	20.0	31.37	19.6	6.09	4.9	8.08
		4.27.00	14.43.21	20.4	24.41	14.9	6.36	3.0	8.14
		4.27.00	14.43.58	21.0	19.00	11.3	6.99	1.1	8.17
		4.27.00	14.44.19	21.1	17.78	10.5	7.47	0.2	8.17

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp <sup>o</sup> C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
<b>BR6</b>									
neap	high slack	3.27.00	15.15.19	18.1	14.38	8.4	.	4.0	7.65
		3.27.00	15.15.45	18.1	14.07	8.2	.	3.6	7.62
		3.27.00	15.16.04	18.2	13.78	8.0	.	3.1	7.62
		3.27.00	15.16.23	18.2	9.88	5.6	.	2.6	7.67
		3.27.00	15.16.43	18.4	7.76	4.3	.	2.1	7.78
		3.27.00	15.17.01	18.6	3.70	2.0	.	1.6	7.96
		3.27.00	15.17.21	18.6	3.37	1.8	.	1.1	8.01
		3.27.00	15.17.39	18.6	3.21	1.7	.	0.6	7.99
		3.27.00	15.17.54	18.6	3.18	1.7	.	0.2	7.96
neap	low slack	3.28.00	9.22.59	17.4	0.40	0.2	6.06	2.5	7.41
		3.28.00	9.23.23	17.5	0.40	0.2	6.49	2.0	7.34
		3.28.00	9.24.03	17.5	0.41	0.2	7.08	1.0	7.27
		3.28.00	9.24.47	17.5	0.39	0.2	7.49	0.2	7.21
spring	high slack	3.20.00	9.49.05	16.9	15.64	9.2	.	4.8	7.43
		3.20.00	9.49.51	16.9	15.65	9.2	.	4.3	7.43
		3.20.00	9.50.14	16.9	15.77	9.2	.	4.0	7.43
		3.20.00	9.50.40	16.9	15.74	9.2	.	3.4	7.43
		3.20.00	9.51.10	16.9	15.75	9.2	.	2.9	7.43
		3.20.00	9.51.48	16.9	15.65	9.2	.	2.3	7.43
		3.20.00	9.52.18	16.9	15.57	9.1	.	1.9	7.43
		3.20.00	9.52.49	16.9	15.38	9.0	.	1.4	7.44
		3.20.00	9.53.16	16.9	15.50	9.1	.	0.8	7.44
		3.20.00	9.53.41	16.9	15.52	9.1	.	0.1	7.44
spring	low slack	3.20.00	16.35.41	17.9	1.17	0.6	.	2.5	7.58
		3.20.00	16.36.14	17.8	1.13	0.6	.	2.1	7.58
		3.20.00	16.36.31	17.8	1.10	0.6	.	1.8	7.59
		3.20.00	16.37.11	17.8	1.02	0.5	.	1.1	7.58
		3.20.00	16.37.38	17.8	0.96	0.5	.	0.6	7.56
		3.20.00	16.38.02	17.8	0.96	0.5	.	0.1	7.53
spring	high slack	4.18.00	.	19.3	.	8.4	6.00	5.0	.
		4.18.00	.	19.3	.	8.4	5.71	4.0	.
		4.18.00	.	19.3	.	8.4	6.18	3.0	.
		4.18.00	.	19.3	.	8.3	5.91	2.0	.
		4.18.00	.	19.3	.	8.1	6.10	1.0	.
		4.18.00	.	19.3	.	7.9	6.39	0.0	.
spring	low slack	4.18.00	15.41.04	20.3	0.90	0.4	8.12	1.2	6.71
		4.18.00	15.41.39	20.2	0.90	0.4	7.53	0.9	6.72
		4.18.00	15.42.07	20.2	0.91	0.5	7.52	0.2	6.70
neap	low slack	4.26.00	8.28.32	19.6	2.14	1.1	7.23	3.5	8.03
		4.26.00	8.29.27	19.7	2.16	1.1	7.20	2.5	7.91

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		4.26.00	8.30.23	19.7	2.07	1.1	7.19	1.1	7.85
		4.26.00	8.30.59	19.7	2.04	1.0	7.21	0.1	7.81
neap	high slack	4.27.00	15.02.29	20.4	21.53	13.0	7.17	4.0	8.05
		4.27.00	15.02.50	20.4	21.26	12.8	7.10	3.6	8.03
		4.27.00	15.03.08	20.4	21.22	12.8	7.07	3.0	8.02
		4.27.00	15.03.33	20.5	20.98	12.6	7.06	2.1	8.01
		4.27.00	15.03.59	20.7	16.38	9.6	7.29	1.0	8.09
		4.27.00	15.04.21	20.9	13.91	8.1	7.93	0.2	8.13
<b>BR10</b>									
neap	low slack	3.28.00	9.50.50	17.5	0.12	0.1	.	3.1	7.47
		3.28.00	9.51.52	17.5	0.12	0.1	.	2.3	7.32
		3.28.00	9.52.57	17.5	0.12	0.1	.	1.7	7.27
		3.28.00	9.53.50	17.5	0.12	0.1	.	1.2	7.22
		3.28.00	9.54.50	17.6	0.12	0.1	.	0.6	7.18
neap	high slack	3.29.00	15.58.31	18.9	0.50	0.2	.	3.4	8.61
		3.29.00	15.58.58	18.9	0.50	0.2	.	3.1	8.40
		3.29.00	15.59.18	18.9	0.50	0.2	.	2.6	8.31
		3.29.00	15.59.35	18.9	0.49	0.2	.	2.1	8.25
		3.29.00	16.00.15	18.9	0.48	0.2	.	1.7	8.15
		3.29.00	16.00.50	18.9	0.47	0.2	.	0.6	8.10
spring	low slack	3.20.00	17.26.48	18.1	0.37	0.2	.	3.0	7.76
		3.20.00	17.27.16	18.1	0.38	0.2	.	2.6	7.68
		3.20.00	17.28.03	18.1	0.38	0.2	.	2.0	7.53
		3.20.00	17.28.26	18.1	0.38	0.2	.	1.5	7.49
		3.20.00	17.28.48	18.1	0.38	0.2	.	1.1	7.46
		3.20.00	17.29.09	18.1	0.38	0.2	.	0.6	7.43
		3.20.00	17.29.41	18.1	0.38	0.2	.	0.1	7.39
spring	high slack	3.20.00	10.09.31	16.5	3.05	1.6	.	5.0	7.82
		3.20.00	10.10.05	16.5	2.87	1.5	.	4.5	7.72
		3.20.00	10.10.37	16.5	2.81	1.5	.	4.0	7.68
		3.20.00	10.11.14	16.5	2.83	1.5	.	3.4	7.66
		3.20.00	10.11.48	16.6	2.72	1.4	.	3.0	7.64
		3.20.00	10.12.24	16.6	2.76	1.4	.	2.5	7.60
		3.20.00	10.12.57	16.6	2.90	1.5	.	2.0	7.58
		3.20.00	10.13.31	16.6	2.71	1.4	.	1.4	7.57
		3.20.00	10.14.07	16.6	2.81	1.5	.	0.9	7.56
		3.20.00	10.14.41	16.6	2.77	1.4	.	0.4	7.55
		3.20.00	10.15.00	16.7	2.70	1.4	.	0.0	7.55
neap	low slack	4.26.00	8.58.01	19.7	0.25	0.1	6.82	3.5	8.25
		4.26.00	8.58.56	19.7	0.25	0.1	6.58	2.6	7.83
		4.26.00	8.59.28	19.7	0.25	0.1	6.56	1.6	7.71

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		4.26.00	9.00.12	19.7	0.25	0.1	6.55	0.4	7.62
		4.26.00	9.00.32	19.8	0.25	0.1	6.55	0.0	7.60
neap	high slack	4.26.00	15.23.02	20.6	4.49	2.4	7.00	4.0	7.43
		4.26.00	15.23.55	20.5	3.50	1.8	6.94	3.1	7.53
		4.26.00	15.24.41	20.3	2.30	1.2	7.06	1.9	7.66
		4.26.00	15.25.15	20.4	1.83	0.9	7.13	0.9	7.71
		4.26.00	15.25.48	20.5	1.31	0.7	7.36	0.0	7.83
spring	low slack	4.18.00	16.19.59	20.0	0.41	0.2	7.16	2.5	7.17
		4.18.00	16.20.15	20.0	0.41	0.2	6.96	2.0	7.08
		4.18.00	16.20.30	20.0	0.41	0.2	6.90	1.5	7.01
		4.18.00	16.20.49	20.0	0.41	0.2	6.86	1.0	6.94
		4.18.00	16.21.06	20.0	0.42	0.2	6.83	0.5	6.89
spring	high slack	4.18.00	.	19.3	.	0.5	6.19	0.0	.
		4.18.00	.	19.4	.	0.5	6.00	1.0	.
		4.18.00	.	19.3	.	0.5	6.11	2.0	.
		4.18.00	.	19.3	.	0.6	5.90	3.0	.
		4.18.00	.	19.2	.	0.6	5.70	4.0	.
		4.18.00	.	19.2	.	0.7	5.94	4.5	.
<b>BR15</b>									
neap	high slack	3.27.00	15.44.16	17.9	0.10	0.1	.	2.5	8.79
		3.27.00	15.44.36	17.9	0.10	0.1	.	2.1	8.47
		3.27.00	15.45.00	17.9	0.10	0.1	.	1.6	8.32
		3.27.00	15.45.22	17.9	0.10	0.1	.	1.1	8.20
		3.27.00	15.45.43	18.0	0.10	0.1	.	0.6	8.11
neap	low slack	3.28.00	10.09.14	17.5	0.11	0.1	.	1.7	7.28
		3.28.00	10.10.10	17.6	0.11	0.1	.	1.0	7.13
		3.28.00	10.10.49	17.6	0.11	0.1	.	0.2	7.07
spring	high slack	3.20.00	10.36.54	16.3	0.45	0.2	.	3.4	7.58
		3.20.00	10.37.38	16.3	0.45	0.2	.	3.0	7.58
		3.20.00	10.38.25	16.3	0.45	0.2	.	2.5	7.57
		3.20.00	10.39.00	16.3	0.45	0.2	.	2.0	7.54
		3.20.00	10.39.34	16.3	0.46	0.2	.	1.4	7.52
		3.20.00	10.39.57	16.3	0.46	0.2	.	1.0	7.50
		3.20.00	10.40.19	16.4	0.46	0.2	.	0.4	7.47
spring	low slack	3.20.00	17.42.18	18.9	0.35	0.2	.	1.5	7.75
		3.20.00	17.42.48	19.0	0.34	0.2	.	1.1	7.71
		3.20.00	17.43.16	19.1	0.33	0.2	.	0.6	7.65
		3.20.00	17.43.45	19.1	0.33	0.2	.	0.1	7.57
spring	high slack	4.18.00	.	19.5	.	0.2	5.62	0.0	.
		4.18.00	.	19.3	.	0.2	5.48	1.0	.

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		4.18.00	.	19.1	.	0.3	5.37	2.0	.
		4.18.00	.	19.1	.	0.3	5.30	3.0	.
		4.18.00	.	19.1	.	0.3	5.30	3.5	.
spring	low slack	4.18.00	17.04.25	20.0	0.50	0.2	7.23	2.0	6.74
		4.18.00	17.04.58	20.0	0.50	0.2	6.93	1.6	6.78
		4.18.00	17.05.12	20.0	0.50	0.2	6.92	1.2	6.76
		4.18.00	17.05.31	20.0	0.51	0.2	6.93	0.6	6.74
neap	low slack	4.26.00	9.27.02	19.3	0.19	0.1	7.36	1.3	7.76
		4.26.00	9.27.22	19.3	0.19	0.1	6.87	1.0	7.72
		4.26.00	9.27.40	19.4	0.19	0.1	6.80	0.5	7.69
		4.26.00	9.27.58	19.4	0.19	0.1	6.76	0.0	7.66
neap	high slack	4.26.00	15.08.20	20.1	0.34	0.2	7.75	2.4	8.16
		4.26.00	15.08.57	20.0	0.35	0.2	6.88	2.9	8.10
		4.26.00	15.09.44	20.0	0.35	0.2	6.77	2.3	8.01
		4.26.00	15.10.04	20.0	0.35	0.2	6.76	2.0	7.98
		4.26.00	15.10.45	20.0	0.33	0.2	6.82	1.3	7.93
		4.26.00	15.11.40	20.1	0.33	0.2	6.88	0.7	7.88
		4.26.00	15.12.12	20.5	0.32	0.2	6.99	0.0	7.84
<b>SR12</b>									
neap	low slack	3.27.00	9.03.48	17.3	41.51	26.7	.	13.4	7.54
		3.27.00	9.04.25	17.3	41.23	26.5	.	12.5	7.59
		3.27.00	9.04.57	17.4	38.72	24.7	.	11.6	7.63
		3.27.00	9.05.26	17.4	36.96	23.4	.	10.5	7.65
		3.27.00	9.05.59	17.4	35.68	22.6	.	9.6	7.66
		3.27.00	9.06.41	17.4	32.64	20.4	.	8.6	7.68
		3.27.00	9.07.21	17.4	31.28	19.5	.	7.6	7.69
		3.27.00	9.07.47	17.4	31.11	19.4	.	7.5	7.68
		3.27.00	9.08.28	17.4	28.29	17.5	.	6.5	7.69
		3.27.00	9.09.10	17.4	24.69	15.1	.	5.6	7.72
		3.27.00	9.09.45	17.4	19.31	11.5	.	4.6	7.80
		3.27.00	9.10.20	17.4	15.14	8.9	.	3.6	7.83
		3.27.00	9.11.01	17.4	10.06	5.7	.	2.6	7.86
		3.27.00	9.11.47	17.4	9.76	5.5	.	1.6	7.80
		3.27.00	9.12.29	17.5	8.98	5.0	.	0.6	7.77
neap	high slack	3.29.00	15.13.35	17.2	47.33	30.8	.	14.5	7.88
		3.29.00	15.14.32	17.2	47.20	30.8	.	12.6	7.95
		3.29.00	15.15.59	17.2	47.05	30.6	.	10.7	8.00
		3.29.00	15.17.03	17.2	46.17	30.0	.	8.6	8.03
		3.29.00	15.18.05	17.4	38.49	24.5	.	6.7	8.06
		3.29.00	15.19.03	17.7	30.76	19.2	.	4.7	8.06
		3.29.00	15.19.56	18.5	24.10	14.7	.	2.7	8.05
		3.29.00	15.20.37	19.4	18.88	11.2	.	0.5	8.05

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
spring	high slack	3.21.00	10.34.55	17.3	28.90	17.9	.	15.8	7.29
		3.21.00	10.35.41	17.3	28.95	17.9	.	14.1	7.41
		3.21.00	10.36.17	17.3	29.01	18.0	.	12.1	7.47
		3.21.00	10.36.50	17.2	28.48	17.6	.	10.1	7.51
		3.21.00	10.37.20	17.2	26.55	16.3	.	8.1	7.57
		3.21.00	10.37.55	17.2	23.95	14.6	.	6.0	7.61
		3.21.00	10.38.29	17.2	22.27	13.5	.	4.0	7.64
		3.21.00	10.39.02	17.3	19.12	11.4	.	2.0	7.68
		3.21.00	10.39.46	17.9	16.05	9.4	.	0.1	7.69
spring	low slack	3.21.00	17.45.14	17.4	20.03	12.0	.	14.0	6.86
		3.21.00	17.45.57	17.4	20.05	12.0	.	13.0	7.01
		3.21.00	17.46.29	17.4	18.96	11.3	.	11.0	7.12
		3.21.00	17.47.08	17.7	14.19	8.2	.	8.8	7.28
		3.21.00	17.47.47	17.9	10.66	6.1	.	7.4	7.34
		3.21.00	17.48.24	17.8	9.89	5.6	.	5.8	7.35
		3.21.00	17.49.05	17.6	8.16	4.6	.	4.0	7.40
		3.21.00	17.49.56	17.6	7.68	4.3	.	2.0	7.39
		3.21.00	17.50.28	17.6	7.31	4.0	.	1.0	7.40
		3.21.00	17.51.03	17.6	6.65	3.7	.	0.0	7.42
spring	low slack	4.19.00	16.00.39	19.5	21.57	13.0	8.40	10.2	7.38
		4.19.00	16.00.57	19.4	21.42	12.9	6.39	10.1	7.43
		4.19.00	16.01.30	19.5	17.84	10.6	6.40	8.1	7.53
		4.19.00	16.02.02	19.4	17.03	10.1	6.37	6.2	7.56
		4.19.00	16.02.45	19.5	14.13	8.2	6.40	4.0	7.61
		4.19.00	16.03.24	19.7	11.73	6.7	6.50	2.2	7.64
		4.19.00	16.03.44	19.9	9.53	5.4	6.58	1.0	7.65
		4.19.00	16.04.11	20.1	9.43	5.3	6.63	0.1	7.63
spring	high slack	4.20.00	9.21.59	19.9	28.78	17.8	6.56	14.8	7.31
		4.20.00	9.23.11	19.9	28.74	17.8	6.24	12.8	7.48
		4.20.00	9.24.23	19.9	28.61	17.7	6.26	10.9	7.56
		4.20.00	9.25.31	19.8	27.38	16.8	6.34	8.9	7.63
		4.20.00	9.26.39	19.8	24.34	14.8	6.45	7.0	7.69
		4.20.00	9.27.57	19.8	23.81	14.5	6.48	4.8	7.70
		4.20.00	9.29.12	19.8	22.66	13.7	6.48	2.8	7.72
		4.20.00	9.30.11	19.9	21.58	13.0	6.47	1.0	7.73
		4.20.00	9.30.48	19.9	20.95	12.6	6.47	0.1	7.73
neap	low slack	4.27.00	9.17.41	19.8	39.69	25.4	5.96	12.7	7.79
		4.27.00	9.18.39	19.9	37.93	24.1	5.83	10.8	7.89
		4.27.00	9.20.11	20.0	33.76	21.2	5.83	8.8	7.95
		4.27.00	9.21.12	20.1	29.01	18.0	5.91	6.8	7.98
		4.27.00	9.22.05	20.2	23.94	14.6	6.04	4.8	8.00
		4.27.00	9.23.13	20.3	18.89	11.2	6.26	2.8	7.99

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		4.27.00	9.24.10	20.3	17.43	10.3	6.34	0.9	7.94
neap	high slack	4.27.00	14.24.51	19.8	40.39	25.9	6.01	13.4	8.09
		4.27.00	14.25.41	19.8	40.27	25.8	6.00	11.9	8.09
		4.27.00	14.26.26	19.8	39.69	25.4	6.02	9.8	8.10
		4.27.00	14.27.04	19.9	37.34	23.7	6.09	7.9	8.11
		4.27.00	14.27.43	20.3	28.37	17.5	6.35	5.9	8.17
		4.27.00	14.28.21	20.7	24.52	14.9	6.62	3.9	8.15
		4.27.00	14.28.55	20.9	23.37	14.2	6.78	2.0	8.12
		4.27.00	14.29.22	21.0	22.03	13.3	6.90	0.4	8.11
<b>SR19</b>									
neap	low slack	3.27.00	9.52.23	17.4	24.04	14.6	.	12.2	7.00
		3.27.00	9.53.04	17.4	24.26	14.8	.	10.6	7.08
		3.27.00	9.54.01	17.4	23.64	14.4	.	8.6	7.12
		3.27.00	9.54.54	17.4	6.58	3.6	.	6.6	7.61
		3.27.00	9.56.19	17.5	2.29	1.2	.	4.5	7.88
		3.27.00	9.57.15	17.5	1.72	0.9	.	2.6	7.86
		3.27.00	9.57.50	17.5	1.69	0.9	.	2.5	7.80
		3.27.00	9.58.31	17.5	1.18	0.6	.	0.6	7.88
		3.27.00	10.06.41	17.5	0.55	0.3	.	1.1	7.80
neap	high slack	3.28.00	15.16.01	17.3	37.29	23.7	.	14.1	7.69
		3.28.00	15.17.33	17.3	37.13	23.6	.	12.6	7.76
		3.28.00	15.18.32	17.4	36.18	22.9	.	10.8	7.79
		3.28.00	15.19.33	17.4	35.21	22.2	.	8.8	7.79
		3.28.00	15.20.25	17.4	33.50	21.0	.	6.9	7.80
		3.28.00	15.21.48	17.5	27.88	17.2	.	4.9	7.79
		3.28.00	15.22.52	17.6	19.71	11.8	.	2.9	7.81
		3.28.00	15.25.00	18.7	5.49	3.0	.	1.0	8.02
spring	high slack	3.21.00	11.01.53	17.2	9.75	5.5	.	14.7	7.26
		3.21.00	11.02.46	17.2	9.52	5.4	.	13.0	7.31
		3.21.00	11.03.17	17.2	8.59	4.8	.	11.2	7.38
		3.21.00	11.03.49	17.2	7.91	4.4	.	9.1	7.42
		3.21.00	11.04.22	17.1	7.13	3.9	.	7.1	7.47
		3.21.00	11.04.54	17.1	6.56	3.6	.	5.1	7.50
		3.21.00	11.05.24	17.1	4.44	2.4	.	3.1	7.65
		3.21.00	11.05.54	17.3	3.77	2.0	.	1.1	7.67
		3.21.00	11.06.20	17.6	3.52	1.9	.	0.2	7.67
spring	low slack	3.21.00	18.10.32	17.5	2.43	1.3	.	14.6	7.26
		3.21.00	18.10.53	17.4	2.32	1.2	.	14.8	7.31
		3.21.00	18.11.36	17.5	2.40	1.2	.	13.9	7.36
		3.21.00	18.12.16	17.5	1.74	0.9	.	12.1	7.40
		3.21.00	18.13.08	17.6	1.49	0.8	.	10.0	7.45
		3.21.00	18.13.48	17.7	0.98	0.5	.	8.1	7.52

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		3.21.00	18.14.54	17.7	1.07	0.5	.	5.9	7.43
		3.21.00	18.16.10	17.7	0.89	0.4	.	4.0	7.47
		3.21.00	18.17.21	17.6	0.88	0.4	.	1.9	7.43
		3.21.00	18.18.04	17.6	0.87	0.4	.	0.8	7.43
		3.21.00	18.18.50	17.5	0.88	0.4	.	-0.1	7.42
spring	high slack	4.19.00	9.17.21	19.3	14.96	8.7	6.41	16.5	6.80
		4.19.00	9.18.10	19.3	14.77	8.6	6.36	14.9	7.02
		4.19.00	9.19.02	19.3	13.93	8.1	6.39	12.8	7.11
		4.19.00	9.19.51	19.3	13.29	7.7	6.41	10.9	7.17
		4.19.00	9.20.59	19.3	13.08	7.6	6.40	9.0	7.22
		4.19.00	9.22.03	19.3	10.52	6.0	6.48	6.9	7.29
		4.19.00	9.22.59	19.2	7.81	4.3	6.65	4.9	7.37
		4.19.00	9.23.40	19.3	6.83	3.8	6.71	3.1	7.39
		4.19.00	9.24.30	19.3	6.47	3.5	6.76	0.9	7.38
		4.19.00	9.25.03	19.3	6.43	3.5	6.78	0.1	7.36
spring	low slack	4.19.00	17.00.25	19.5	7.14	3.9	4.34	13.1	7.45
		4.19.00	17.01.19	19.8	5.39	2.9	5.66	11.4	7.69
		4.19.00	17.02.15	19.9	4.29	2.3	6.74	9.4	7.69
		4.19.00	17.02.58	19.9	3.81	2.0	6.81	7.5	7.67
		4.19.00	17.03.49	20.2	2.67	1.4	6.91	5.4	7.71
		4.19.00	17.04.54	20.2	2.11	1.1	6.98	3.1	7.71
		4.19.00	17.06.03	20.2	1.44	0.7	7.03	1.3	7.78
		4.19.00	17.06.53	20.4	0.51	0.2	7.10	0.1	7.98
neap	high slack	4.26.00	14.16.05	20.1	30.54	19.0	7.89	14.0	7.34
		4.26.00	14.17.16	20.1	29.80	18.5	5.71	12.1	7.51
		4.26.00	14.18.12	20.2	29.38	18.2	5.71	10.0	7.57
		4.26.00	14.19.16	20.2	27.64	17.0	5.71	7.8	7.62
		4.26.00	14.20.11	20.3	23.35	14.2	5.83	5.7	7.68
		4.26.00	14.21.04	20.3	19.68	11.8	5.98	3.9	7.73
		4.26.00	14.21.44	20.4	12.55	7.2	6.30	2.0	7.87
		4.26.00	14.22.48	20.7	7.58	4.2	6.85	0.1	7.92
neap	low slack	4.27.00	10.11.07	20.0	33.11	20.8	2.44	11.7	7.69
		4.27.00	10.11.44	20.1	29.99	18.6	3.36	10.0	7.73
		4.27.00	10.12.20	20.3	22.77	13.8	5.31	8.0	7.88
		4.27.00	10.12.57	20.2	15.12	8.8	6.03	6.0	8.00
		4.27.00	10.13.33	20.2	12.10	6.9	6.34	4.0	8.03
		4.27.00	10.14.05	20.2	4.79	2.6	6.66	2.1	8.24
		4.27.00	10.14.38	20.1	4.10	2.2	6.86	0.4	8.27
				<b>SR24</b>					
neap	low slack	3.27.00	10.20.39	17.5	0.10	0.0	.	4.7	7.80
		3.27.00	10.21.12	17.5	0.10	0.0	.	3.6	7.74
		3.27.00	10.22.04	17.5	0.10	0.0	.	2.6	7.66

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		3.27.00	10.23.01	17.5	0.10	0.0	.	1.6	7.61
		3.27.00	10.24.00	17.5	0.10	0.0	.	0.6	7.56
neap	high slack	3.29.00	16.16.08	18.3	18.50	11.0	.	6.7	7.29
		3.29.00	16.16.52	18.4	17.00	10.0	.	5.7	7.39
		3.29.00	16.17.29	18.7	14.00	8.1	.	4.7	7.47
		3.29.00	16.18.02	18.9	10.18	5.8	.	3.8	7.54
		3.29.00	16.18.37	19.0	9.59	5.4	.	2.8	7.55
		3.29.00	16.19.08	19.0	8.41	4.7	.	1.8	7.58
		3.29.00	16.19.34	19.0	5.96	3.2	.	0.5	7.71
spring	high slack	3.21.00	11.35.55	16.8	0.91	0.5	.	7.1	7.57
		3.21.00	11.36.22	16.8	0.82	0.4	.	6.1	7.54
		3.21.00	11.36.42	16.8	0.61	0.3	.	5.1	7.59
		3.21.00	11.37.06	16.8	0.57	0.3	.	4.0	7.56
		3.21.00	11.37.29	16.8	0.55	0.3	.	3.1	7.53
		3.21.00	11.37.53	16.8	0.52	0.2	.	2.1	7.52
		3.21.00	11.38.20	16.8	0.51	0.2	.	1.0	7.47
		3.21.00	11.38.49	16.8	0.52	0.2	.	0.1	7.46
spring	low slack	3.21.00	18.44.14	17.1	0.11	0.1	.	7.8	7.80
		3.21.00	18.44.49	17.1	0.11	0.1	.	7.5	7.63
		3.21.00	18.45.24	17.1	0.11	0.1	.	6.7	7.56
		3.21.00	18.45.59	17.1	0.12	0.1	.	5.7	7.50
		3.21.00	18.46.39	17.1	0.12	0.1	.	4.6	7.45
		3.21.00	18.47.14	17.1	0.12	0.1	.	3.7	7.42
		3.21.00	18.47.42	17.1	0.12	0.1	.	2.9	7.40
		3.21.00	18.48.12	17.1	0.12	0.1	.	1.9	7.37
		3.21.00	18.48.46	17.1	0.12	0.1	.	1.0	7.35
		3.21.00	18.49.30	17.1	0.12	0.1	.	0.0	7.33
spring	high slack	4.19.00	9.48.43	19.4	2.83	1.5	7.31	10.4	7.47
		4.19.00	9.49.07	19.4	2.97	1.5	6.89	10.5	7.44
		4.19.00	9.49.53	19.4	2.99	1.6	6.85	9.5	7.40
		4.19.00	9.50.29	19.4	3.02	1.6	6.84	8.3	7.38
		4.19.00	9.51.16	19.4	2.89	1.5	6.84	7.2	7.37
		4.19.00	9.52.05	19.4	2.80	1.5	6.85	6.2	7.35
		4.19.00	9.52.53	19.4	2.84	1.5	6.85	5.2	7.34
		4.19.00	9.54.02	19.4	2.85	1.5	6.85	4.4	7.33
		4.19.00	9.55.04	19.4	2.87	1.5	6.84	3.5	7.32
		4.19.00	9.55.54	19.4	2.82	1.5	6.85	2.5	7.32
		4.19.00	9.56.49	19.4	2.78	1.4	6.85	1.5	7.32
		4.19.00	9.57.45	19.4	2.72	1.4	6.86	0.4	7.32
		4.19.00	9.58.15	19.5	2.67	1.4	6.88	0.0	7.32
spring	low slack	4.19.00	17.31.49	20.3	0.13	0.1	7.26	8.5	7.91
		4.19.00	17.32.18	20.3	0.13	0.1	7.16	8.7	7.77



Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		3.20.00	11.02.45	16.0	0.28	0.1	.	7.1	7.45
		3.20.00	11.03.20	16.0	0.28	0.1	.	6.0	7.43
		3.20.00	11.03.51	16.0	0.28	0.1	.	5.1	7.43
		3.20.00	11.04.20	16.0	0.29	0.1	.	4.1	7.41
		3.20.00	11.04.52	16.0	0.29	0.1	.	3.1	7.41
		3.20.00	11.05.26	16.0	0.29	0.1	.	2.0	7.39
		3.20.00	11.05.59	16.0	0.28	0.1	.	1.0	7.38
		3.20.00	11.06.28	16.3	0.27	0.1	.	0.1	7.37
spring	low slack	3.20.00	18.02.16	16.7	0.12	0.1	.	6.2	7.60
		3.20.00	18.02.47	16.7	0.12	0.1	.	5.8	7.53
		3.20.00	18.03.12	16.7	0.12	0.1	.	5.0	7.49
		3.20.00	18.03.42	16.7	0.12	0.1	.	4.0	7.46
		3.20.00	18.04.04	16.8	0.12	0.1	.	3.0	7.44
		3.20.00	18.04.38	16.7	0.12	0.1	.	1.8	7.41
		3.20.00	18.05.09	16.8	0.12	0.1	.	0.9	7.39
		3.20.00	18.05.31	16.8	0.12	0.1	.	0.1	7.36
spring	high slack	4.18.00	.	19.1	.	0.1	7.13	0.0	.
		4.18.00	.	18.9	.	0.1	7.20	1.0	.
		4.18.00	.	18.9	.	0.1	7.23	2.0	.
		4.18.00	.	18.8	.	0.1	7.28	3.0	.
		4.18.00	.	18.8	.	0.1	7.31	4.0	.
		4.18.00	.	18.8	.	0.1	7.29	5.0	.
		4.18.00	.	18.8	.	0.1	7.38	6.0	.
		4.18.00	.	18.8	.	0.1	7.40	7.0	.
spring	low slack	4.18.00	17.18.53	19.8	0.13	0.1	7.42	4.4	7.06
		4.18.00	17.19.25	19.8	0.13	0.1	7.34	3.7	6.93
		4.18.00	17.20.02	19.8	0.13	0.1	7.33	2.7	6.89
		4.18.00	17.20.42	19.8	0.13	0.1	7.33	1.7	6.85
		4.18.00	17.21.18	19.8	0.13	0.1	7.33	0.8	6.83
neap	low slack	4.26.00	9.53.15	19.6	0.13	0.1	7.16	4.5	7.61
		4.26.00	9.53.37	19.6	0.13	0.1	7.34	4.5	7.66
		4.26.00	9.54.33	19.6	0.13	0.1	7.23	3.6	7.56
		4.26.00	9.55.36	19.6	0.13	0.1	7.20	2.6	7.51
		4.26.00	9.56.32	19.6	0.13	0.1	7.20	1.5	7.49
		4.26.00	9.57.37	19.6	0.13	0.1	7.21	0.5	7.47
		4.26.00	9.57.57	19.6	0.13	0.1	7.21	0.0	7.46
neap	high slack	4.26.00	14.53.04	20.0	0.16	0.1	7.42	6.8	8.59
		4.26.00	14.53.32	20.0	0.16	0.1	7.21	7.1	8.44
		4.26.00	14.54.17	20.0	0.16	0.1	7.15	6.1	8.33
		4.26.00	14.55.06	20.0	0.16	0.1	7.13	5.1	8.27
		4.26.00	14.55.35	20.0	0.16	0.1	7.14	4.0	8.24
		4.26.00	14.55.59	20.0	0.16	0.1	7.14	3.0	8.22

Tide	Tide phase	Date mm.dd.yy	Time hh.mm.ss	Temp°C	SpCond mS/cm	Salinity (ppt)	DO mg/L	Depth meters	pH
		4.26.00	14.56.22	20.0	0.16	0.1	7.15	2.0	8.19
		4.26.00	14.56.49	20.1	0.16	0.1	7.16	1.0	8.19
		4.26.00	14.57.43	20.2	0.16	0.1	7.16	0.0	8.16
<b>MR2</b>									
neap	low slack	3.27.00	10.06.58	17.5	0.55	0.3	.	1.1	7.79
		3.27.00	10.07.19	17.5	0.55	0.3	.	0.6	7.75
		3.27.00	10.07.43	17.5	0.55	0.3	.	0.2	7.73
neap	high slack	3.28.00	15.33.17	18.9	3.50	1.8	.	1.9	7.99
		3.28.00	15.34.17	19.0	3.46	1.8	.	1.5	7.89
		3.28.00	15.35.03	19.0	3.41	1.8	.	1.0	7.84
		3.28.00	15.35.44	19.0	3.51	1.8	.	0.6	7.80
spring	low slack	3.20.00	17.42.18	18.9	0.35	0.2	.	1.5	7.75
		3.20.00	17.42.48	19.0	0.34	0.2	.	1.1	7.71
		3.20.00	17.43.16	19.1	0.33	0.2	.	0.6	7.65
		3.20.00	17.43.45	19.1	0.33	0.2	.	0.1	7.57
spring	high slack	3.20.00	10.36.54	16.3	0.45	0.2	.	3.4	7.58
		3.20.00	10.37.38	16.3	0.45	0.2	.	3.0	7.58
		3.20.00	10.38.25	16.3	0.45	0.2	.	2.5	7.57
		3.20.00	10.39.00	16.3	0.45	0.2	.	2.0	7.54
		3.20.00	10.39.34	16.3	0.46	0.2	.	1.4	7.52
		3.20.00	10.39.57	16.3	0.46	0.2	.	1.0	7.50
		3.20.00	10.40.19	16.4	0.46	0.2	.	0.4	7.47
spring	high slack	4.19.00	9.33.27	18.8	5.63	3.1	7.62	2.2	7.41
		4.19.00	9.33.49	19.3	5.74	3.1	6.91	2.6	7.39
		4.19.00	9.34.22	19.3	5.67	3.1	6.72	1.9	7.37
		4.19.00	9.34.56	19.3	5.58	3.0	6.71	1.3	7.36
		4.19.00	9.35.31	19.4	4.54	2.4	6.84	0.9	7.41
		4.19.00	9.36.26	19.5	4.42	2.4	6.95	0.2	7.40
spring	low slack	4.19.00	17.20.31	20.9	0.95	0.5	7.18	1.4	7.66
		4.19.00	17.20.48	20.9	0.96	0.5	7.15	0.9	7.64
		4.19.00	17.21.02	20.9	0.94	0.5	7.15	0.5	7.64
neap	high slack	4.26.00	14.30.11	20.5	14.13	8.2	7.39	2.0	7.73
		4.26.00	14.30.48	20.5	13.14	7.6	6.37	2.1	7.72
		4.26.00	14.31.24	20.6	11.61	6.6	6.42	1.4	7.74
		4.26.00	14.31.47	20.9	8.02	4.5	6.54	0.7	7.82
		4.26.00	14.32.19	21.4	7.10	3.9	6.90	0.0	7.86
neap	low slack	4.27.00	10.26.11	19.9	2.56	1.3	7.27	1.0	8.12
		4.27.00	10.26.30	19.9	2.42	1.2	7.15	0.6	8.11
		4.27.00	10.26.48	20.0	2.32	1.2	7.14	0.1	8.10